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Filing Date: September 29, 2003

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# IN THE CLAIMS

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1. (Currently amended) A gun sight for attachment to a gunbarrel of a gun, the gun sight comprising:

a first plurality of sight indicators configured to aim the gunbarrel to compensate for motion of a <u>flying</u> target and a distance to the <u>flying</u> target including

a first sight indicator having a first substantially enclosed outline for aligning to an apparent size of <u>flying</u> targets at a closer distance and configured to appear, as viewed, to be at a first displacement from a <u>vertical</u> centerline of the <u>gunbarrel</u> <u>gun</u> corresponding to a first nonzero angle of lead, <del>and</del>

a second sight indicator having a second substantially enclosed outline for aligning to an apparent size of <u>flying</u> targets at a farther distance, wherein the second sight indicator is smaller than the first sight indicator and configured to be further from the <u>vertical</u> centerline of the <u>gunbarrel gun</u> corresponding to a second nonzero angle of lead larger than the first angle of lead, <u>and wherein both the first sight indicator and the second sight indicator are</u> along a first direction that extends <u>at a nonzero angle from the vertical centerline of the <del>gunbarrel</del> gun, and</u>

a third sight indicator configured to be between the first sight indicator and the second sight indicator along the first direction, and having a size between the size of the first sight indicator and the size of the second sight indicator, wherein the gun sight is a non-telescopic gun sight.

2. (Previously presented) A gun sight for attachment to a gunbarrel, the gun sight comprising:

a first plurality of sight indicators configured to aim the gunbarrel to compensate for motion of a target including a first sight indicator configured to appear, as viewed, to be closer to the gunbarrel, and a second sight indicator, smaller than the first sight indicator and configured to be further from the gunbarrel, both along a first direction that extends from the gunbarrel;

a second plurality of sight indicators including a fourth sight indicator located to appear, as viewed, to be closer to the gunbarrel, and a fifth sight indicator, smaller than the fourth sight indicator and located to appear, as viewed, to be further from the gunbarrel, both along a second

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direction that extends from the gunbarrel;

a third plurality of sight indicators including a sixth sight indicator located to appear, as viewed, to be closer to the gunbarrel, and a seventh indicator, smaller than the sixth sight indicator and located to appear, as viewed, to be further from the gunbarrel, both along a third direction that extends from the gunbarrel in a direction opposite the second direction;

a fourth plurality of sight indicators including an eighth sight indicator located to appear, as viewed, to be closer to the gunbarrel, and a ninth indicator, smaller than the eighth sight indicator and located to appear, as viewed, to be further from the gunbarrel, both along a fourth direction that extends from the gunbarrel in an angled direction between the second direction and the first direction; and

a fifth plurality of sight indicators including an tenth sight indicator located to appear, as viewed, to be closer to the gunbarrel, and an eleventh indicator, smaller than the tenth sight indicator and located to appear, as viewed, to be further from the gunbarrel, both along a fifth direction that extends from the gunbarrel in an angled direction between the third direction and the first direction; and

wherein the gun sight is configured to be attached to the gunbarrel such that the first direction extends substantially vertically above the gunbarrel, and such that the second direction and third direction both extend substantially horizontally relative to the gunbarrel when the gunbarrel is held in a shooting position.

# 3. (Cancelled)

4. (Currently amended) The gun sight of claim 1, wherein the gun sight is configured to be attached to the gunbarrel such that the first sight indicator and the second sight indicator are further comprising a second plurality of sight indicators including a fourth sight indicator located to appear, as viewed, to be at a first displacement from the gun, and a fifth sight indicator, smaller than the fourth sight indicator and located to be further from the gun, both located vertically above the gunbarrel gun, and configured to compensate for motion of [[a]] the flying target moving horizontally away from the gun and from above the gun.

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5. (Currently amended) The gun sight of claim 1, further comprising a substantially straight visible first line located substantially along the first direction to show a connection of the first sight indicator to the second sight indicator configured to align with a direction of motion of the <u>flying</u> target.

- 6. (Withdrawn) The gun sight of claim 5, wherein the first sight indicator and the second sight indicator are formed of a substantially open structure.
- 7. (Withdrawn) The gun sight of claim 1, wherein the first sight indicator and the second sight indicator are formed of a wire.
- 8. (Withdrawn) The gun sight of claim 1, wherein the first sight indicator and the second sight indicator are formed of an elongated cast material having a low aspect ratio.
- 9. (Withdrawn) The gun sight of claim 1, wherein the first sight indicator and the second sight indicator are formed of metal thin enough to substantially not block a view of a target.
- 10. (Original) The gun sight of claim 1, wherein the first sight indicator and the second sight indicator are formed on a transparent substrate.
- 11. (Currently amended) The gun sight of claim 1, further comprising:
- a second third plurality of sight indicators including a fourth seventh sight indicator located to appear, as viewed, to be at a fourth displacement from [[a]] the vertical centerline of the gunbarrel gun, and a fifth eighth sight indicator, smaller than the fourth seventh sight indicator and located to be further from the vertical centerline of the gunbarrel gun, both along a second direction that extends at a nonzero angle from the vertical centerline of the gunbarrel gun.
- 12. (Currently amended) The gun sight of claim 10, wherein the gun sight is configured to be attached to the gunbarrel such that the first direction extends vertically above the gunbarrel, and such that the second direction extends substantially perpendicular to the first direction gun.

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13. (Previously presented) A gun sight for attachment to a gunbarrel the gun sight comprising:

a first plurality of sight indicators configured to aim the gunbarrel to compensate for a distance to the target and motion of a target including a first sight indicator configured to align to an apparent size of closer targets and aim at a first non-zero lead angle closer to the gunbarrel, and a second sight indicator, smaller than the first sight indicator and configured to align to an apparent size of farther targets and aim at a second non-zero lead angle further from the gunbarrel, both along a first direction that extends from the gunbarrel;

a second plurality of sight indicators including a fourth sight indicator located and configured to align to an apparent size of closer targets and aim at a third non-zero lead angle closer to the gunbarrel, and a fifth sight indicator, smaller than the fourth sight indicator and located and configured to align to an apparent size of farther targets and aim at a fourth non-zero lead angle further from the gunbarrel, both along a second direction that extends from the gunbarrel; and

a third plurality of sight indicators including a sixth sight indicator located and configured to align to an apparent size of closer targets and aim at a fifth non-zero lead angle closer to the gunbarrel, and an seventh indicator, smaller than the sixth sight indicator and located and configured to align to an apparent size of closer targets and aim at a sixth non-zero lead angle further from the gunbarrel, both along a third direction that extends from the gunbarrel in a direction opposite the second direction, and wherein the gun sight is configured to be attached to the gunbarrel such that the first direction extends substantially vertically above the gunbarrel, and such that the second direction and third direction both extend substantially perpendicular to the first direction.

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## 14. (Previously presented) A method comprising:

providing a substantially transparent substrate;

configuring the substrate to be attached to a gunbarrel; and

affixing to the substrate a first plurality of sight indicators configured to aim the gunbarrel to compensate for a distance to the target and motion of a target, wherein each of the first plurality of sight indicators includes an indicator with substantially enclosed outline, and substrate and indicators form a non-telescopic gun sight, wherein the plurality of sight indicators include:

a first plurality of sight indicators configured to aim the gunbarrel to compensate for a distance to the target and motion of a target including a first sight indicator configured to align to an apparent size of closer targets and aim at a first non-zero lead angle closer to the gunbarrel, and a second sight indicator, smaller than the first sight indicator and configured to align to an apparent size of farther targets and aim at a second non-zero lead angle further from the gunbarrel, both along a first direction that extends from the gunbarrel;

a second plurality of sight indicators including a fourth sight indicator located and configured to align to an apparent size of closer targets and aim at a third non-zero lead angle closer to the gunbarrel, and a fifth sight indicator, smaller than the fourth sight indicator and located and configured to align to an apparent size of farther targets and aim at a fourth non-zero lead angle further from the gunbarrel, both along a second direction that extends from the gunbarrel; and

a third plurality of sight indicators including a sixth sight indicator located and configured to align to an apparent size of closer targets and aim at a fifth non-zero lead angle closer to the gunbarrel, and an seventh indicator, smaller than the sixth sight indicator and located and configured to align to an apparent size of closer targets and aim at a sixth non-zero lead angle further from the gunbarrel, both along a third direction that extends from the gunbarrel in a direction opposite the second direction, and wherein the gun sight is configured to be attached to the gunbarrel such that the first direction extends substantially vertically above the gunbarrel, and such that the second direction and third direction both extend substantially perpendicular to the first direction.

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#### 15. (Previously presented) The method claim 14, further comprising:

affixing to the substrate a third sight indicator at a location between the first sight indicator and the second sight indicator along the first direction, and the third sight indicator having a size between the size of the first sight indicator and the size of the second sight indicator,

affixing to the substrate a eighth sight indicator at a location between the fourth sight indicator and the fifth sight indicator along the second direction, and the eighth sight indicator having a size between the size of the fourth sight indicator and the size of the fifth sight indicator; and

affixing to the substrate a ninth sight indicator at a location between the sixth sight indicator and the seventh sight indicator along the third direction, and the ninth sight indicator having a size between the size of the sixth sight indicator and the size of the seventh sight indicator.

#### 16. (Cancelled)

### 17. (Previously presented) The method of claim 14, further comprising:

affixing to the substrate a first visible line located to connect the first sight indicator to the second sight indicator.

# 18. (Previously presented) A method comprising:

providing a substantially transparent substrate;

configuring the substrate to be attached to a gunbarrel as a non-telescopic gun sight;

affixing to the substrate a first plurality of sight indicators configured to aim the gunbarrel to compensate for motion of a target including a first sight indicator located to appear, as viewed, to be closer to the gunbarrel, and a second sight indicator, smaller than the first sight indicator and located to be further from the gunbarrel, both along a first direction that extends from the gunbarrel;

affixing to the substrate a second plurality of sight indicators including a fourth sight indicator located to be closer to the gunbarrel, and a fifth sight indicator, smaller than the fourth

sight indicator and located to be further from the gunbarrel, both along a second direction that extends from the gunbarrel;

affixing to the substrate a third plurality of sight indicators including a sixth sight indicator located to be closer to the gunbarrel, and a seventh indicator, smaller than the sixth sight indicator and located to be further from the gunbarrel, both along a third direction that extends from the gunbarrel in a direction opposite the second direction;

affixing to the substrate a fourth plurality of sight indicators including an eighth sight indicator located to be closer to the gunbarrel, and a ninth indicator, smaller than the eighth sight indicator and located to be further from the gunbarrel, both along a fourth direction that extends from the gunbarrel in an angled direction between the second direction and the first direction; and

affixing to the substrate a fifth plurality of sight indicators including an tenth sight indicator located to be closer to the gunbarrel, and an eleventh indicator, smaller than the tenth sight indicator and located to be further from the gunbarrel, both along a fifth direction that extends from the gunbarrel in an angled direction between the third direction and the first direction; and

wherein the configuring of the substrate to be attached to the gunbarrel as the non-telescopic gun sight includes configuring such that the first direction extends substantially vertically above the gunbarrel, and such that the second direction and third direction both extend substantially horizontally relative to the gunbarrel when the gunbarrel is held in a shooting position.

# 19. (Currently amended) An apparatus comprising:

a non-telescopic gun sight configured to be attached to a gunbarrel; and means on the gun sight for sighting a <u>flying</u> target through [[a]] <u>one of at least three</u> substantially enclosed [[outline]] <u>outlines of differing sizes along a first direction from the gunbarrel</u>, wherein the first direction is a straight linear direction that intersects the gunbarrel, to allow positioning of the gunbarrel to compensate for a distance to the <u>flying</u> target and for a motion of the <u>flying</u> target.

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- 20. (Original) The apparatus of claim 19, further comprising means for removably attaching the gun sight to a firearm.
- 21. (Original) The apparatus of claim 19, further comprising a firearm attached to the gun sight.
- 22. (Currently amended) The apparatus of claim 19, wherein the means for sighting the <u>flying</u> target further comprises a plurality of different-sized indicator means along a second direction that is different than the first direction.
- 23. (Previously presented) An apparatus comprising:

a non-telescopic gun sight configured to be attached to a gunbarrel; and means on the gun sight for sighting a target through a substantially enclosed outline to allow positioning of the gunbarrel to compensate for a distance to the target and for a motion of the target,

wherein the means for sighting the target further comprises a plurality of different-sized indicator means, and

wherein the plurality of different-sized indicator means includes:

a first plurality of sight indicator means including a first sight indicator means located to be closer to the gunbarrel, and a second sight indicator means, smaller than the first sight indicator means and located to be further from the gunbarrel, both along a first direction that extends substantially vertically from the gunbarrel;

a second plurality of sight indicator means including a fourth sight indicator means located to be closer to the gunbarrel, and a fifth sight indicator means, smaller than the fourth sight indicator means and located to be further from the gunbarrel, both along a second direction that extends substantially horizontally from the gunbarrel;

a third plurality of sight indicator means including a sixth sight indicator means located to be closer to the gunbarrel, and a seventh indicator means, smaller than the sixth sight indicator means and located to be further from the gunbarrel, both along a third direction that extends substantially horizontally from the gunbarrel in a direction substantially opposite the second

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direction;

a fourth plurality of sight indicator means including an eighth sight indicator means

located to be closer to the gunbarrel, and a ninth indicator means, smaller than the eighth sight

indicator means and located to be further from the gunbarrel, both along a fourth direction that

extends from the gunbarrel in an angled direction between the second direction and the first

direction; and

a fifth plurality of sight indicator means including an tenth sight indicator means located

to be closer to the gunbarrel, and an eleventh indicator means, smaller than the tenth sight

indicator means and located to be further from the gunbarrel, both along a fifth direction that

extends from the gunbarrel in an angled direction between the third direction and the first

direction.

24. (Currently amended) A gun sight for attachment to a gunbarrel the gun sight comprising:

a first plurality of sight indicators configured to aim the gunbarrel to compensate for

motion of a target including a first sight indicator configured to appear, as viewed, to be closer to

the gunbarrel, and a second sight indicator, smaller than the first sight indicator and configured

to be further from the gunbarrel, both along a first direction that extends from the gunbarrel,

wherein each of the first plurality of sight indicators includes an indicator with substantially

enclosed outline, and the gun sight is a non-telescopic gun sight; and

a clamping system having a fixed portion configured to be held to the gunbarrel and a

movable clamp portion configured to clamp the gun sight between the fixed portion and the

movable clamp portion.

25. (Previously presented) The gun sight of claim 24, wherein the removable clamp portion

engages with the fixed portion using mating threads.

26. (Previously presented) An apparatus comprising:

an attachment mechanism operable to connect to a firearm having a gunbarrel; and

means for compensating for a target distance and motion by directing a horizontal

component of aiming relatively further from an axis of the gunbarrel for a further target and

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relatively closer to the gunbarrel axis for a nearer target via a non-telescopic gun sight, wherein the means for compensating includes:

a first plurality of substantially enclosed sight indicator means including a first sight indicator means located to be closer to the gunbarrel, and a second sight indicator means, smaller than the first sight indicator means and located to be further from the gunbarrel, both along a first direction that extends substantially vertically from the gunbarrel and configured to provide two different nonzero amounts of vertical lead;

a second plurality of substantially enclosed sight indicator means including a fourth sight indicator means located to be closer to the gunbarrel, and a fifth sight indicator means, smaller than the fourth sight indicator means and located to be further from the gunbarrel, both along a second direction that extends substantially horizontally from the gunbarrel and configured to provide two different nonzero amounts of horizontal lead; and

a third plurality of substantially enclosed sight indicator means including a sixth sight indicator means located to be closer to the gunbarrel, and a seventh indicator means, smaller than the sixth sight indicator means and located to be further from the gunbarrel, both along a third direction that extends substantially horizontally from the gunbarrel in a direction substantially opposite the second direction and configured to provide two additional different nonzero amounts of horizontal lead.

27. (Previously presented) The gun sight of claim 2, wherein the first sight indicator, the second sight indicator, the third sight indicator, the fourth sight indicator, the fifth sight indicator, the sixth sight indicator, the seventh sight indicator, the eighth sight indicator, the ninth sight indicator, the tenth sight indicator and the eleventh sight indicator are all outlines in the shape of a game animal.

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28. (Currently amended) The gun sight of claim [[3]] 4, wherein the gun sight is configured to be attached to the gunbarrel such that the first sight indicator, the second sight indicator, and the third sight indicator are located vertically above the gunbarrel, further comprising a sixth sight indicator configured to be between the fourth sight indicator and the fifth sight indicator vertically above the gunbarrel, having a size between the size of the fourth sight indicator and the size of the fifth sight indicator, and configured to compensate for motion of [[a]] the flying target moving horizontally away from the gun and from above the gun.